

**What is claimed is:**

1       A composition having barrier properties comprising a blend of  
Polyamide (A) and polyolefin (B) wherein said blend contains nanofillers and wherein  
5       said polyamide forms the matrix.

2       The composition according to Claim 1, in which the polyolefin (B)  
comprises (i) a high density polyethylene (HDPE) and (ii) a blend of a polyethylene  
(C1) and a polymer (C2) chosen from elastomers, very low-density polyethylenes and  
10       copolymers of ethylene, the (C1) + (C2) blend being cografted with an unsaturated  
carboxylic acid or an unsaturated carboxylic acid anhydride.

3       The composition according to Claim 1, in which the polyolefin (B)  
comprises (i) a high-density polyethylene (HDPE), (ii) a polymer (C2) chosen from  
15       elastomers, very low-density polyethylenes and the copolymers of ethylene (C2) being  
grafted with an unsaturated carboxylic acid or an unsaturated carboxylic anhydride and  
(iii) a polymer (C'2) chosen from elastomers, very low-density polyethylenes and  
copolymers of ethylene.

20       4       The composition according to Claim 1, in which the polyolefin (B)  
comprises (i) polypropylene and (ii) a polyolefin which results from the reaction of a  
polyamide (C4) with a copolymer (C3) comprising propylene and a grafted or  
copolymerized, unsaturated monomer X.

25       5       The composition according to Claim 1, in which the polyolefin (B)  
comprises (i) a polyethylene of the ethylene vinyl acetate (EVA), linear low density  
polyethylene (LLDPE), very low density polyethylene (VLDPE) or metallocene  
polyethylene and (ii) an ethylene-alkyl (meth)acrylate-maleic anhydride copolymer.

30       6       The composition according to Claim 1, in which the polyolefin  
comprises two functionalized polymers comprising at least 50 mol% of ethylene units  
and which can react to form a crosslinked phase.

7        The composition according to Claim 1, in which the proportion of nanofillers is between 0.1 and 50 parts per respectively 100 parts of (A) and (B) blend.

5            8        An article comprising at least one layer consisting of the composition of Claim 1, and optionally at least one layer of another material

9        The article of claim 8 wherein said article comprises a bottle, reservoir, container, pipe, or vessel.

10

11        The article of claim 8 wherein said article comprises a film.